

# LIGHTNING PROTECTION GROUNDING SUBSYSTEM CHECKLIST FOR NEW FACILITIES

For use of this form, see TM 5-690; the proponent agency is COE.

1. FACILITY		2. DATE (YYYYMMDD)	
3. LOCATION		4. INSPECTOR	
5. SKETCH THE LAYOUT OF THE ACTUAL LIGHTNING PROTECTION SUBSYSTEM (Or attach an up-to-date engineering drawing)			
6. ALL LIGHTNING PROTECTION EQUIPMENT UL LABELED  <input type="checkbox"/> YES <input type="checkbox"/> NO		7. UL MASTER LABEL ISSUED AND PROPERLY ATTACHED TO THE BUILDING  <input type="checkbox"/> YES <input type="checkbox"/> NO	
8. AIR TERMINALS			
8a. CLASS	8b. HEIGHT	8c. MATERIAL	8d. SIZE (Diameter)
<input type="checkbox"/> YES <input type="checkbox"/> NO	8f. PHYSICAL CONDITION	<input type="checkbox"/> YES <input type="checkbox"/> NO	8h. LOCATED AND SPACED AS SPECIFIED  <input type="checkbox"/> YES <input type="checkbox"/> NO
8i. DOES THE HEIGHT OF AIR TERMINALS PROVIDE PROPER CONE OF PROTECTION  <input type="checkbox"/> YES <input type="checkbox"/> NO		8j. DEFICIENCIES	
9. ROOF CONDUCTORS			
9a. CLASS	9b. TYPE	9c. SIZE	9d. MATERIAL
9e. BEND RADIOUS	9f. SECURELY ANCHORED  <input type="checkbox"/> YES <input type="checkbox"/> NO	9g. PROPER FITTINGS  <input type="checkbox"/> YES <input type="checkbox"/> NO	9h. LOCATED AND SPACED AS SPECIFIED  <input type="checkbox"/> YES <input type="checkbox"/> NO
9i. PROPERLY BONDED TO AIR TERMINALS AND OTHER METAL OBJECTS ON ROOF  <input type="checkbox"/> YES <input type="checkbox"/> NO			
9j. PROPERLY INTERCONNECTED TO OTHER CROSS ROOF CONDUCTORS  <input type="checkbox"/> YES <input type="checkbox"/> NO		9k. DEFICIENCIES	
10. DOWN CONDUCTORS			
10a. CLASS	10b. TYPE	10c. SIZE	10d. MATERIAL
10e. BEND RADIOUS	10f. SECURELY ANCHORED  <input type="checkbox"/> YES <input type="checkbox"/> NO	10g. PROPER FITTINGS  <input type="checkbox"/> YES <input type="checkbox"/> NO	10h. LOCATED AND SPACED AS SPECIFIED  <input type="checkbox"/> YES <input type="checkbox"/> NO
10i. PROPERLY BONDED TO ROOF CONDUCTORS/AIR TERMINALS AND GROUNDING ELECTRODES  <input type="checkbox"/> YES <input type="checkbox"/> NO			
10j. DEFICIENCIES			
11. GUARDS			
11a. TYPE	11b. PROPER FITTINGS  <input type="checkbox"/> YES <input type="checkbox"/> NO	11c. SOLIDLY ANCHORED  <input type="checkbox"/> YES <input type="checkbox"/> NO	
12. GROUNDING ELECTRODES			
12a. TYPE	12b. SIZE	12c. LENGTH (Each)	12d. FORM COUNTERPOISE LOOP  <input type="checkbox"/> YES <input type="checkbox"/> NO
12e. DISTANCE BELOW GRADE LEVEL	12f. DISTANCE FROM OUTER WALL	12g. PROPERLY INSTALLED  <input type="checkbox"/> YES <input type="checkbox"/> NO	
12h. PROPERLY CONNECTED TO OTHER GROUNDING SYSTEMS OF THE BUILDING  <input type="checkbox"/> YES <input type="checkbox"/> NO			
12i. PROPERLY CONNECTED TO DOWN CONDUCTORS  <input type="checkbox"/> YES <input type="checkbox"/> NO		12j. GROUND RESISTANCE MEASUREMENT	